

Fig. 8

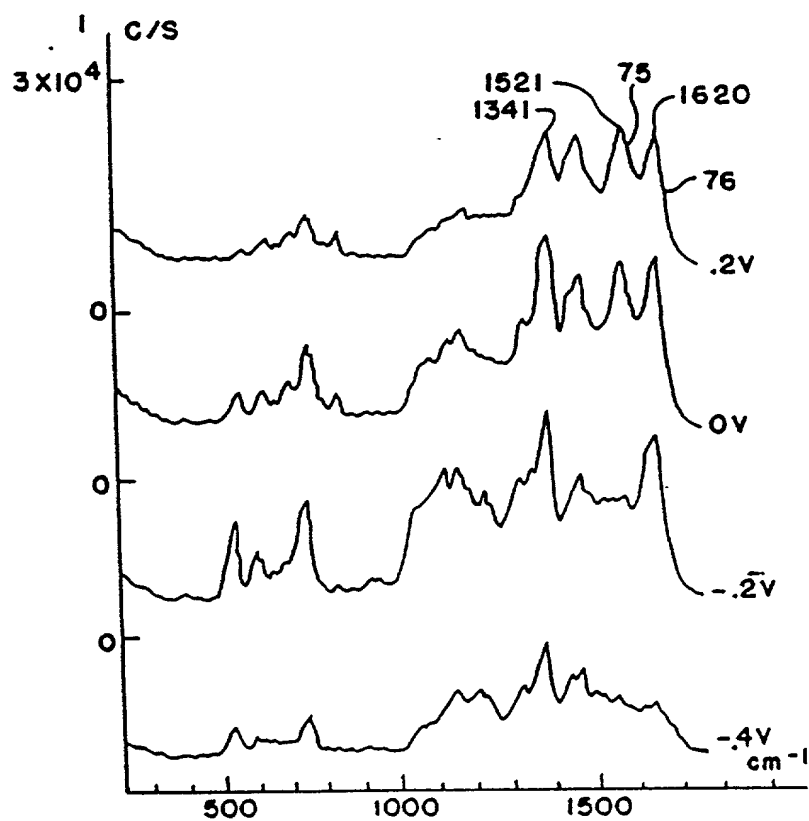


Fig. 9

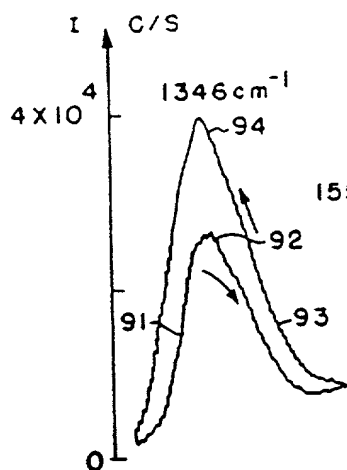


Fig. 10a

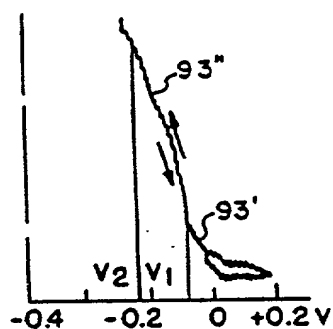


Fig. 10b

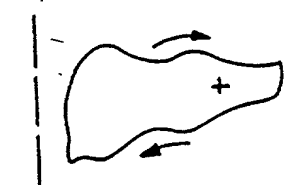


Fig. 10c

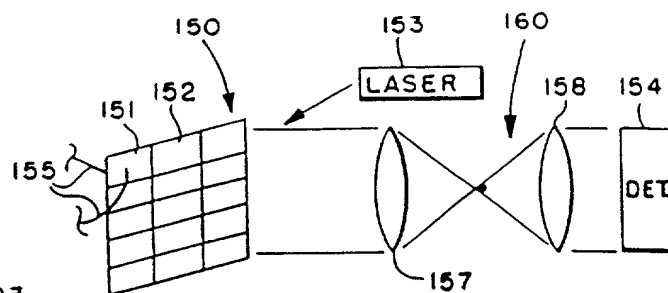


Fig. 11

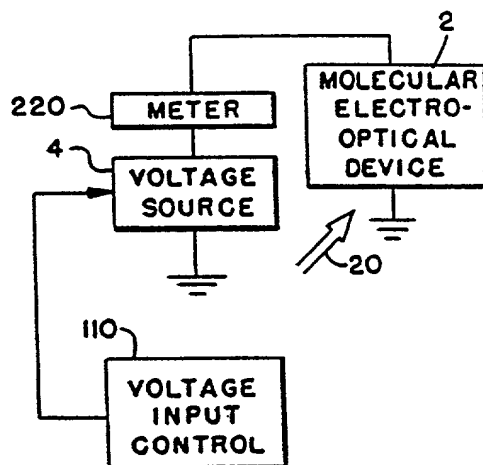


Fig. 12

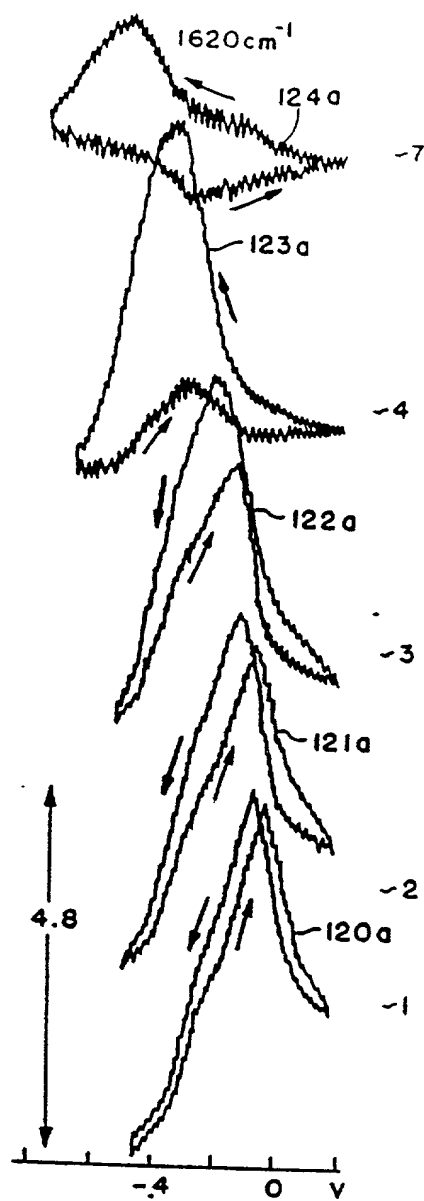


Fig. 11a

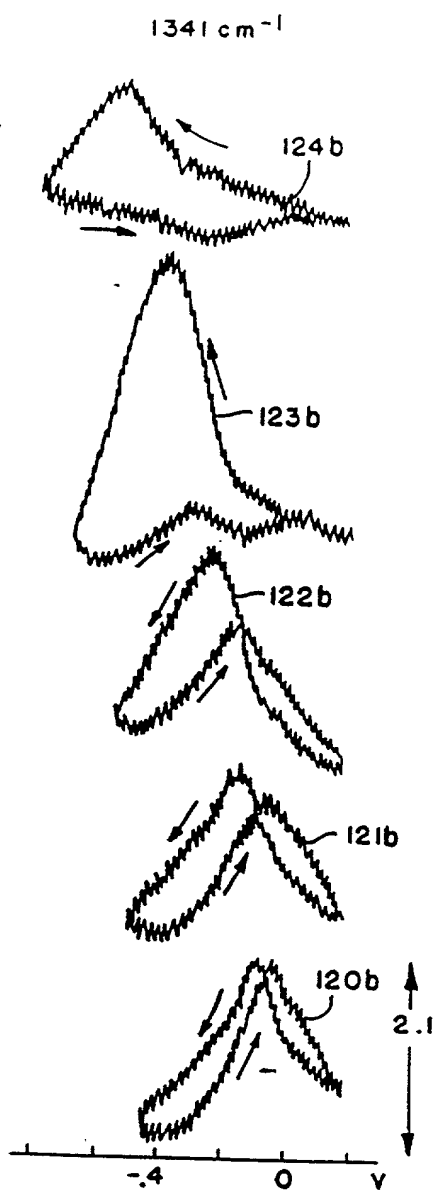


Fig. 11b

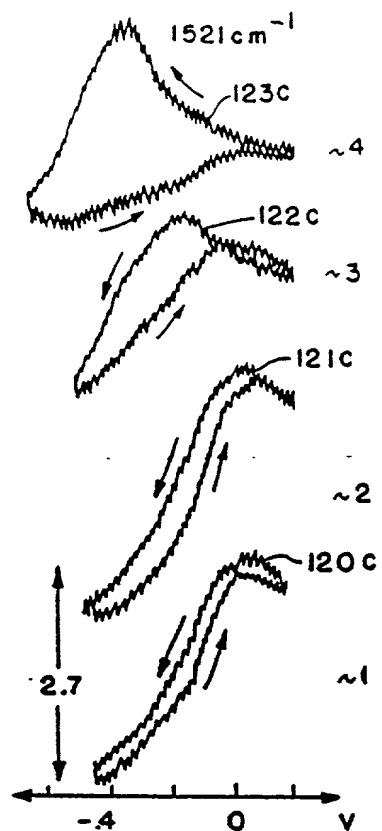


Fig. 11c

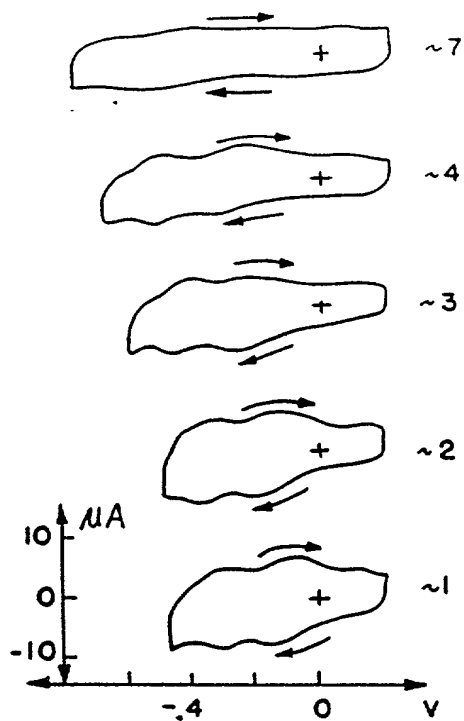


Fig. 11d

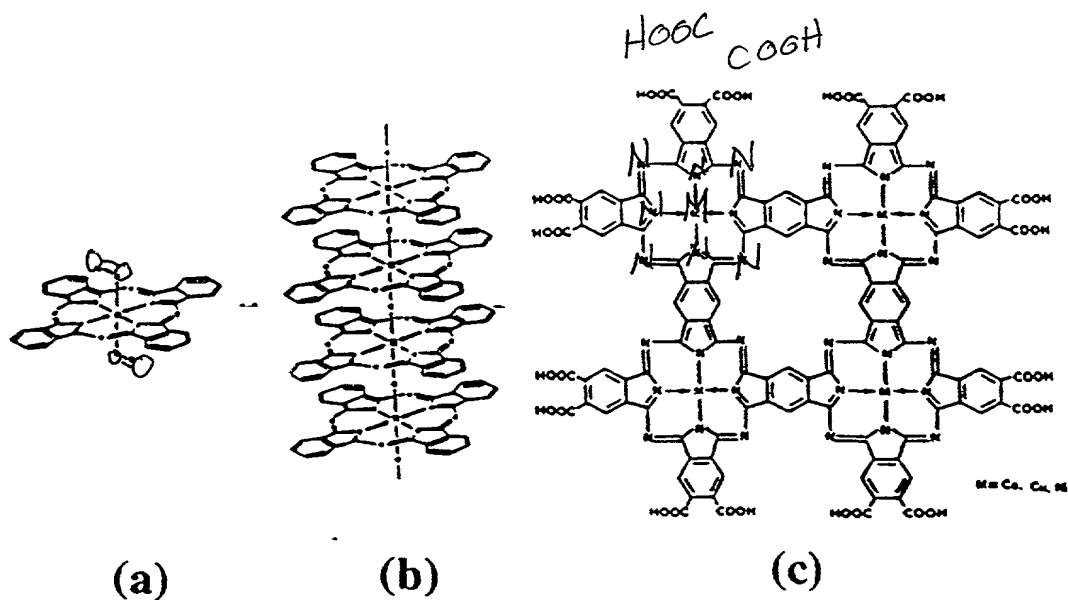


FIG. 14

Schematic representation of different phthalocyanine structures. (a) Monomer, (b) ring stacked and (c) polymer sheet .

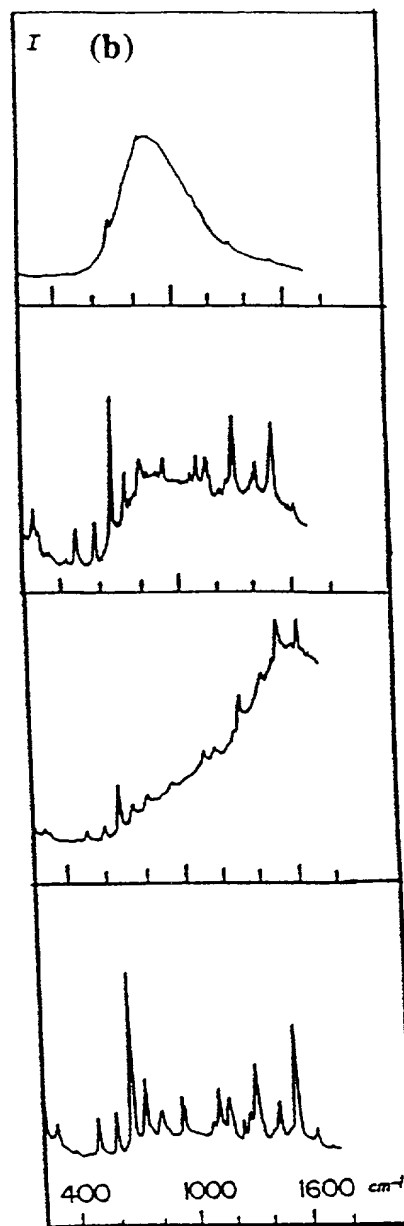
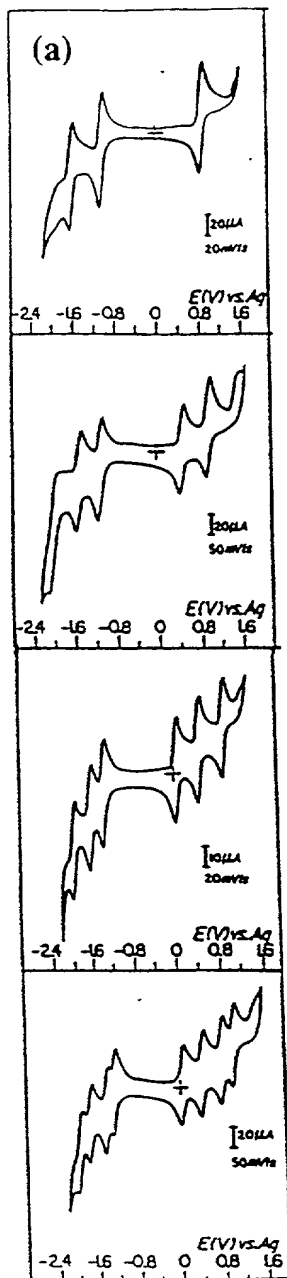
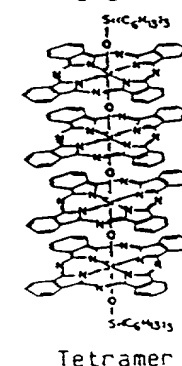
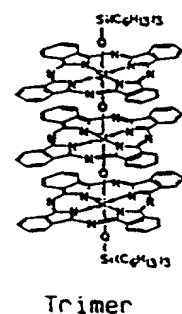
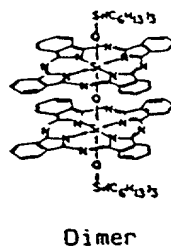
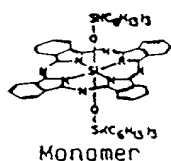


FIG. 15

Electro-optical properties of oxygen bridged $(O-Si-Pc)_n$ for $n=1, 2, 3$ and 4 . (Middle) Cyclic voltammograms obtained from $10^{-3}M$ $(O-Si-Pc)_n$ in $0.1M$ tetra- n -butylammonium perchlorate in CH_2Cl_2 adsorbed on a platinum electrode and (Right) depolarized resonant surface-enhanced Raman spectra obtained from $(O-Si-Pc)_n$ adsorbed on a silver electrode at $0V$ versus SCE. Laser excitation at 632.8 nm and 20 mW output power. The electrolyte is $0.05M$ Na_2SO_4 saturated with argon gas.

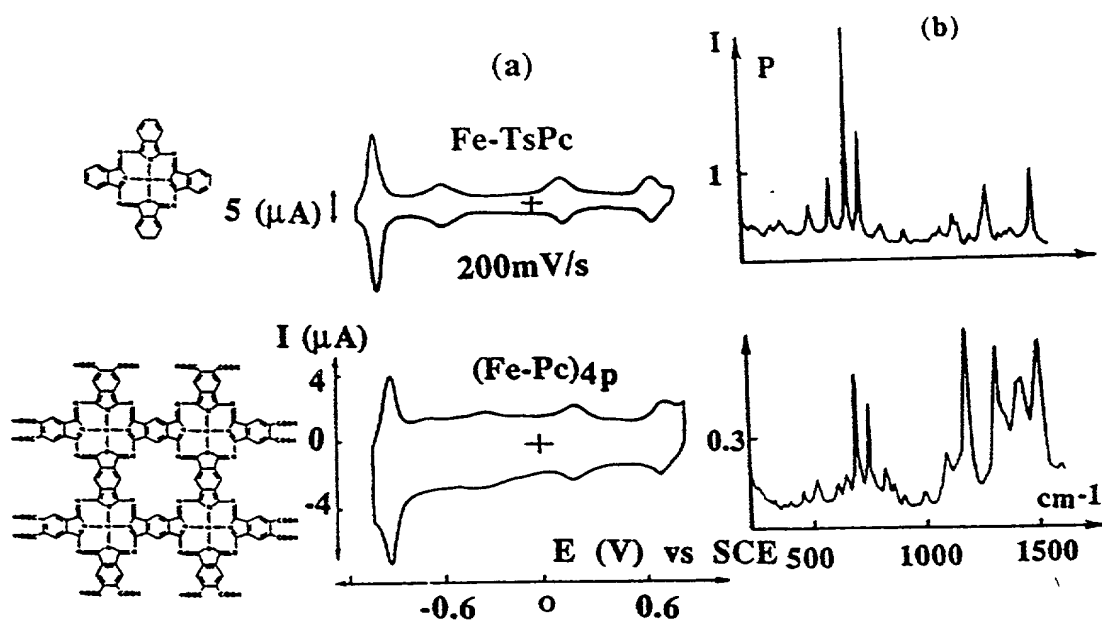


FIG. 16

Electro-optical properties of Fe-TsPc monomer and polymeric sheet (Fe-Pc)_{4p}: (a) Cyclic voltammograms; (b) surface-enhanced resonant Raman spectra. Laser excitation at 632.8 nm with 20 mW output power.

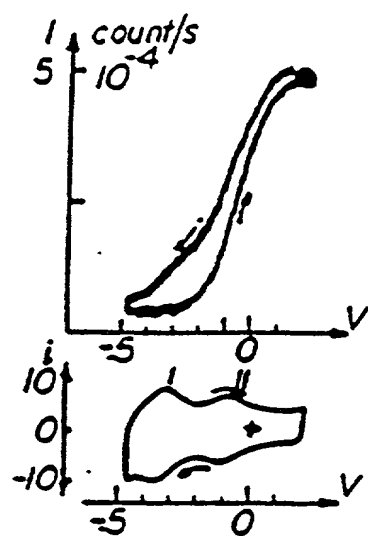


FIG. 17

A curve representing the pulse code firing rate of a neuron obtained from Fe-TsPc adsorbed on a silver electrode.

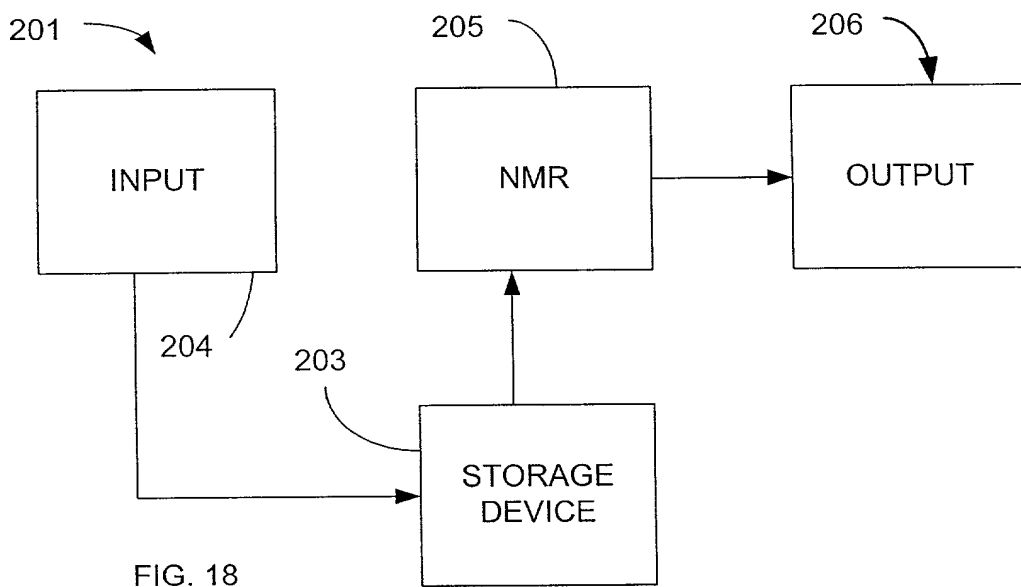


FIG. 18

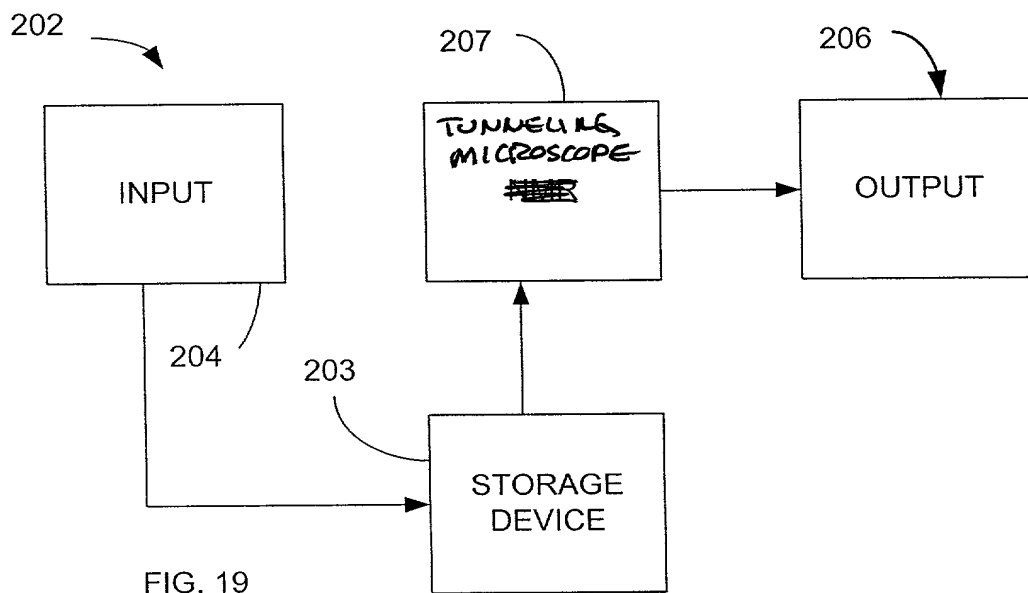


FIG. 19